

...

6

[1] (),

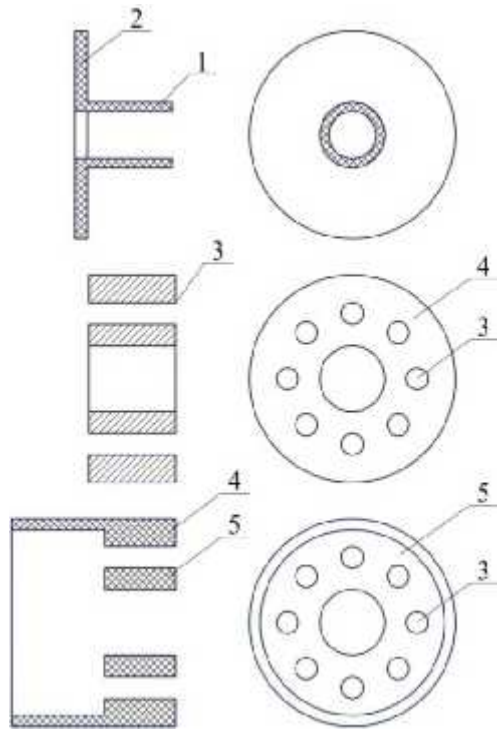
[2], ()

« »

bv jv.

[2, 3]. l D $0,8-3$ $l \cdot (D \ll l)$

[4]. () (.1).



1 -
3 -

; 2 - ;
; 4 - ;
; 5 -

$L \gg D,$ L

v -

1,

$P,$

$P_0 -$

$P_0 \cdot$

$$I_p > I_0 P_0 \quad (1)$$

133,3 , $I_0 -$

0,25 $I_0,$:

$$I_p = 0,25 I_0 P_0 \quad (2)$$

(.2).



.2.

+ ; -

$d_0 p_0$
 U_k
 $r = R - d$ (3)
 $d_0 p_0 - 133,3$
 $l_0 p_0 = d_0 p_0 + L p_0$
 $l_p = l_0 p_0$ (4)
 $l = \frac{d_0 p_0}{4p}$ (5)
 $l = \frac{2\pi R}{N}$ (6)
 $N = 2\pi \frac{R_p}{d_0 p_0}$ (7)
 $R = \frac{N d_0 p_0}{8\pi p}$ (8)
 $p = \frac{N d_0 p_0}{8\pi R}$ (9)
 $r_p = \frac{N d_0 p_0}{8\pi} - dp$ (10)
 $V_{\hat{c}\hat{a}} > \sum_{i=1}^n V_i$ (11)
 $\gamma = \frac{V_{\hat{c}\hat{a}}}{\sum_{i=1}^n V_i}$ (12)
 $V_{\hat{c}\hat{a}} = \pi r^2 l_c$
 $p = 66,67$, 65%
 $S = 8\pi d l_c$, $N = 16$
 $\sum_{i=1}^n V_i = 8\pi d l_c L_{\hat{c}\hat{a}}$ (13)
 $L_{\hat{c}\hat{a}}$
 [5], $p = 66,67$

$$10^{-2} \quad (13)$$

$$\gamma = \frac{r^2}{8dL_{\text{çâ}}} \quad (14)$$

6

$$(\gamma = 6,25).$$

$$L \sim \frac{1}{P},$$

r~p,

γ

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OPTIMAL LOW-TEMPERATURE PLASMA CONDITIONS CREATION FOR THE REDUCTION OF STOCHASTIC IONIZED ENVIRONMENT DENSITY AROUND THE SPACE CRAFT

O.V. Shefer

In this article the construction of device is considered and the recommendations for the optimal conditions of low-temperature plasma interaction with the ionized environment around the SC's corps are developed. As a result of weakly-complicated conditions creation and systems of elementary discharges summation, the volume of plasma with general negative radiation increases in 6 times, has quasi-neutral and equipotential characteristics that creates optimal conditions for density of radio-absorption environment reduction, with the purpose of unimpeded satellite telecommunication signals' passage.

Keywords: stochastic ionosphere environment, low-temperature plasma, negative radiation, plasma density, weakly-complicated condition, space craft, radio signal.